

**Amendments to the Claims**

The current listing of the claims replaces all previous amendments and listings of the claims.

1.-8. (Canceled)

9. (Currently Amended) A ~~lens shape data processing apparatus~~ grinding machine comprising:

an input device configured to input ~~a lens shape data measuring unit configured to~~  
~~measure a plurality of~~ lens shape data of a spectacle frame; and

a lens edge surface shape measuring unit configured to measure a lens edge surface  
shape of an unprocessed spectacle lens based on the lens shape data;

a machining unit configured to grind a lens edge surface of the unprocessed spectacle  
lens based on the lens shape data according to a result of measurement by the lens edge  
surface shape measuring unit; and

a memory configured to store data measured by said a plurality of the lens shape data  
~~measuring unit~~ inputted from the input device.

10. (Currently Amended) ~~The lens shape data processing apparatus~~ grinding  
machine as set forth in Claim 9, further comprising an arithmetic processing unit configured  
to read [[a]] the plurality of the lens shape data stored in the memory and to adjust the lens  
shape data.

11. (Currently Amended) A ~~lens shape data processing apparatus~~ grinding machine  
comprising:

input means for inputting ~~a lens shape data measuring means for measuring a plurality~~  
~~of~~ lens shape data of a spectacle frame; and

lens edge surface shape measuring means for measuring a lens edge surface shape of an unprocessed spectacle lens based on the lens shape data;

machining means for grinding a lens edge surface of the unprocessed spectacle lens based on the lens shape data according to a result of measurement by the lens edge surface shape measuring means; and

storage means for storing a plurality of the data measured by said lens shape data measuring means inputted from the input means.

12. (Currently Amended) The ~~lens shape data processing apparatus~~ grinding machine as set forth in Claim 11, further comprising arithmetic processing means for reading ~~[[a]]~~ the plurality of the lens shape data stored in the storage means and for adjusting the lens shape data.

13. (Previously Presented) A lens shape data processing apparatus comprising:  
a display including an image display unit configured to display a plurality of lens shape information for spectacle frames and an operation contents display unit configured to display items for switching a plurality of screens;  
a plurality of keys corresponding to said items of said operation contents display unit;  
and

an arithmetic control unit configured to set data and to grind an unprocessed lens into a lens shape based on said lens shape information,

wherein said plurality of keys includes a first function key configured to switch at least one of said plurality of screens to select and access one of said plurality of lens shape information and a second function key configured to access a preceding lens shape information and at least one of a next lens shape information and new lens shape information.

14. (Previously Presented) The lens shape data processing apparatus as set forth in Claim 13, further comprising a memory configured to store said plurality of the lens shape information for the spectacle frames.

15. (Previously Presented) A lens shape data processing apparatus comprising:  
display means for displaying, said display means including image display means for displaying a plurality of lens shape information for spectacle frames and operation contents display means for displaying items for switching a plurality of screens;

a plurality of keys corresponding to said items of said operation contents display means; and

arithmetic control means for setting data for grinding an unprocessed lens into a lens shape based on said lens shape information,

wherein said plurality of keys includes a first function key for switching at least one of said plurality of screens to select and access one of said plurality of lens shape information and a second function key for accessing a preceding lens shape information and at least one of a next lens shape information and new lens shape information.

16. (Previously Presented) The lens shape data processing apparatus as set forth in Claim 15, further comprising memory means for storing said plurality of the lens shape information for the spectacle frames.

17. (Currently Amended) A lens grinding machine comprising:  
~~a keyboard~~ an input device configured to input ~~a plurality of lens shape data for of a~~  
spectacle ~~frames~~ frame;

a memory configured to store a plurality of the lens shape data inputted from the input device;

a lens edge surface shape measuring unit configured to measure a lens edge surface shape of an unprocessed spectacle lens based on the lens shape data ~~input for the spectacle frames;~~

a machining unit configured to grind ~~the~~ a lens edge surface shape of said unprocessed spectacle lens based on the lens shape data according to a result of measurement by the lens edge surface shape measuring unit; and

an arithmetic processing unit configured to select one of said plurality of the lens shape data stored in the memory and to set and adjust machining conditions for the unprocessed spectacle lens based on said selected lens shape data during at least one of an operation of said lens edge surface shape measuring unit and an operation of said machining unit.

18. (Currently Amended) A lens grinding machine comprising:

input means for inputting ~~a plurality of~~ lens shape data ~~for~~ of a spectacle ~~frames~~  
frame;

storage means for storing a plurality of the lens shape data inputted from the input means;

lens edge surface shape measuring means for measuring a lens edge surface shape of an unprocessed spectacle lens based on the lens shape data ~~input for the spectacle frames;~~

machining means for grinding ~~the~~ a lens edge surface shape of said unprocessed spectacle lens based on the lens shape data according to a result of measurement by the lens edge surface shape measuring means; and

arithmetic processing means for selecting one of said plurality of the lens shape data stored in the storage means and for setting and adjusting machining conditions for the unprocessed spectacle lens based on said selected lens shape data during at least one of an operation of said lens edge surface shape measuring means and an operation of said machining means.

19. (Currently Amended) A lens grinding machine comprising:

~~a keyboard~~ an input device configured to input ~~a plurality of~~ lens shape data ~~for~~ of a spectacle ~~frames~~ frame;

a memory configured to store a plurality of the lens shape data inputted from the input device;

a lens edge surface shape measuring unit configured to measure a lens edge surface shape of an unprocessed spectacle lens based on the lens shape data ~~input for the spectacle~~ frame;

a machining unit configured to grind ~~the~~ a lens edge surface ~~shape~~ of said unprocessed spectacle lens based on the lens shape data according to a result of measurement by the lens edge surface shape measuring unit; and

an arithmetic processing unit configured to set and adjust machining conditions ~~for~~ of the unprocessed spectacle lens based on ~~following~~ lens shape data subsequent to the lens shape data used for ~~an~~ the ongoing operation within the plurality of the lens shape data stored in the memory during at least one of an operation of said lens edge surface shape measuring unit and an operation of said machining unit.

20. (Currently Amended) A lens grinding machine comprising:

input means for inputting ~~a plurality of~~ lens shape data ~~for~~ of a spectacle ~~frames~~ frame;

storage means for storing a plurality of the lens shape data inputted from the input means;

lens edge surface shape measuring means for measuring a lens edge surface shape of an unprocessed spectacle lens based on the lens shape data ~~input for the spectacle frames;~~

machining means for grinding ~~the~~ a lens edge surface shape of said unprocessed spectacle lens based on the lens shape data according to a result of measurement by the lens edge surface shape measuring means; and

arithmetic processing means for setting and adjusting machining conditions ~~for~~ of the unprocessed spectacle lens based on ~~following~~ lens shape data subsequent to the lens shape data used for ~~an~~ the ongoing operation within the plurality of the lens shape data stored in the storage means during at least one of an operation of said lens edge surface shape measuring means and an operation of said machining means.

21. (Currently Amended) A lens grinding machine as set forth in Claim 17, ~~further comprising a wherein the memory configured to store~~ stores the machining conditions ~~for~~ of the unprocessed spectacle lens based on the lens shape data selected during at least one of the operation of the lens edge surface shape measuring unit and the operation of the machining unit, or stores machining conditions ~~for~~ of the unprocessed spectacle lens based on ~~at least one of selected lens shape data and machining conditions for the unprocessed spectacle lens based on following~~ subsequent to the lens shape data set and adjusted during at least one of ~~an~~ the operation of said lens edge surface shape measuring unit and ~~an~~ during the operation of said machining unit.

22. (Currently Amended) A lens grinding machine as set forth in Claim 18, ~~further comprising memory wherein the storage means for storing~~ stores the machining conditions ~~for~~ of the unprocessed spectacle lens based on the lens shape data selected during at least one

of the operation of the lens edge surface shape measuring means and during the operation of the machining means, or stores machining conditions for of the unprocessed spectacle lens based on at least one of selected lens shape data and machining conditions for the unprocessed spectacle lens based on following subsequent to the lens shape data set and adjusted during at least one of an the operation of said lens edge surface shape measuring means and an the operation of said machining means.

23. (Currently Amended) A lens grinding machine as set forth in Claim 19, ~~further comprising a wherein the memory configured to store~~ stores machining conditions for of the unprocessed spectacle lens based on the lens shape data selected during at least one of the operation of the lens edge surface shape measuring unit and the operation of the machining unit, or stores the machining conditions for of the unprocessed spectacle lens based on at least one of selected the lens shape data and machining conditions for the unprocessed spectacle lens based on following subsequent to the lens shape data set and adjusted during at least one of an the operation of said lens edge surface shape measuring unit and an the operation of said machining unit.

24. (Currently Amended) A lens grinding machine as set forth in Claim 20, ~~further comprising memory wherein the storage means for storing~~ stores machining conditions for of the unprocessed spectacle lens based on the lens shape data selected during at least one of the operation of the lens edge surface shape measuring means and during the operation of the machining means, or stores the machining conditions for of the unprocessed spectacle lens based on at least one of selected the lens shape data and machining conditions for the unprocessed spectacle lens based on following subsequent to the lens shape data set and

adjusted during at least one of ~~an~~ the operation of said lens edge surface shape measuring means and ~~an~~ during the operation of said machining means.

25. (Previously Presented) A lens grinding machine comprising:  
a display including an image display unit configured to display a plurality of lens shape information for spectacle frames and an operation contents display unit configured to display items for switching a plurality of screens;  
a plurality of keys corresponding to said items of said operation contents display unit;  
and  
an arithmetic control unit configured to set data and to grind an unprocessed lens into a lens shape based on said lens shape information,  
wherein said plurality of keys includes a first function key configured to switch at least one of said plurality of screens to select and access one of said plurality of lens shape information and a second function key configured to access a preceding lens shape information and at least one of a next lens shape information and a new lens shape information.

26. (Previously Presented) A lens grinding machine comprising:  
display means for displaying, said display means including an image display means for displaying a plurality of lens shape information for spectacle frames and an operation contents display means for displaying items for switching a plurality of screens;  
a plurality of keys corresponding to said items of said operation contents display means; and  
arithmetic control means for setting data for grinding an unprocessed lens into a lens shape based on said lens shape information,



wherein said plurality of keys includes a first function key for switching at least one of said plurality of screens to select and access one of said plurality of lens shape information and a second function key for accessing a preceding lens shape information and at least one of a next lens shape information and a new lens shape information.

27. (Previously Presented) A lens grinding machine comprising:

a display including an image display unit configured to display a plurality of lens shape information for spectacle frames and an operation contents display unit configured to display items for switching a plurality of screens;

a plurality of keys corresponding to said items of said operation contents display unit;

a memory configured to store said plurality of the lens shape information for the spectacle frames; and

an arithmetic control unit configured to set data to grind means for setting data for grinding an unprocessed lens into a lens shape based on said lens shape information, wherein said plurality of keys includes a first function key configured to switch at least one of said plurality of screens to select and access one of said plurality of lens shape information and a second function key configured to access a preceding lens shape information and at least one of a next lens shape information and a new lens shape information.

28. (Previously Presented) A lens grinding machine comprising:

display means for displaying, said display means including an image display unit for displaying a plurality of lens shape information for spectacle frames and an operation contents display unit for displaying items for switching a plurality of screens;

a plurality of keys corresponding to said items of said operation contents display unit;

memory means for storing said plurality of the lens shape information for the spectacle frames; and

arithmetic control means for setting data for grinding an unprocessed lens into a lens shape based on said lens shape information,

wherein said plurality of keys includes a first function key for switching at least one of said plurality of screens to select and access one of said plurality of lens shape information and a second function key for accessing a preceding lens shape information and at least one of a next lens shape information and a new lens shape information.

29. (New) The lens grinding machine as set forth in Claim 9, wherein the memory is configured to store the plurality of the lens shape data inputted from the input device during at least one of an operation of the lens edge surface shape measuring unit and an operation of the machining unit.

30. (New) The lens grinding machine as set forth in Claim 29, further comprising an arithmetic processing unit configured to read the plurality of the lens shape data stored in the memory and to adjust the lens shape data.

31. (New) The lens grinding machine as set forth in Claim 11, wherein the storage means stores the plurality of the lens shape data inputted from the input means during at least one of an operation of the lens edge surface shape measuring means and an operation of the machining means.

32. (New) The lens grinding machine as set forth in Claim 31, further comprising arithmetic processing means for reading the plurality of the lens shape data stored in the storage means and for adjusting the lens shape data.